Application No.: 10/657,086 Docket No.: M1885.0035/P035-B

AMENDMENTS TO THE CLAIMS

- 1. 20. (Cancelled).
- 21. (Currently Amended) [[Apparatus]] An apparatus for checking a crankpin, orbitally rotating about a geometrical axis, in the course of the machining in a numerical control grinding machine including a worktable, defining said geometrical axis, and a grinding-wheel slide carrying a grinding-wheel, with
- a Vee-shaped reference device for cooperating with the crankpin to be checked,
 - a measuring device movable with the Vee-shaped reference device,
- a support device for supporting the Vee-shaped reference device and the measuring device, the support device having
 - a support element fixed to the grinding-wheel slide,
- a first coupling element coupled to the support element so as to rotate about an axis of rotation parallel to said geometrical axis,
- a second coupling element carrying the Vee-shaped reference device and coupled to the first coupling element so as to rotate with respect to it about a second axis of rotation parallel to said geometrical axis,
- a control device for controlling automatic displacements of the apparatus from a rest position to a checking condition, and vice versa, and
- a guiding mechanism, associated with the Vee-shaped reference device for guiding the arrangement of the latter on the crankpin towards said checking condition of the apparatus, and including a limiting device with

Application No.: 10/657,086 Docket No.: M1885.0035/P035-B

an elongate rigid element,

a substantially tubular element, coupled to the first coupling element, that bears and guides the elongate rigid element [[arranged]] along a direction substantially parallel to the first coupling element and

[[adapted to cooperate with]] <u>abutment</u> elements connected to the grinding-wheel slide and the second coupling element,

the [[limiting device including at least one pair of mechanical abutting surfaces]] elongate rigid element is adapted to engage with [[each other]] the abutment elements and limit movements of the Vee-shaped reference device during said automatic displacements towards the checking condition.

- 22. (Currently Amended) [[Apparatus]] The apparatus according to claim 21, wherein the Vee-shaped reference device is adapted for maintaining contact with the crankpin to be checked substantially owing to the forces of gravity.
- 23. (New) The apparatus according to claim 22, including a helical torsion spring arranged between said support element and said first coupling element, adapted to apply to the reference device a pulling force, opposed to forces of gravity, that dynamically varies during the displacements of the apparatus, the helical torsion spring being arranged along a direction substantially parallel to said geometrical axis.